

Motor Vehicle Traffic Crash Fatalities and Injuries

Based on

***The Fatality Analysis Reporting System (FARS)
and***

***The National Automotive Sampling System (NASS)
General Estimates System (GES)***

DOT HS 810 583

April 20, 2006

The 2005 Projections

The numbers from these 2005 projections are subject to change when the data from the full Year 2005 Annual Assessment is released this summer.

2005 projections are compared to fatalities and injuries from the 2004 Annual Report. Sources of the data are indicated in the listing on slide 27.

The 2005 “**PROJECTIONS**” contained in this report are based on statistical procedures which use “**PARTIAL**” year FARS and NASS GES files.

- *The number of persons killed in motor vehicle traffic crashes is projected to **increase** by about 1 percent, after two years of decline.*
- *The number of persons injured in motor vehicle traffic crashes is projected to **decline** by 4 percent.*

Overall Statistics

	<i>Year</i>		<i>% Change</i>
	<i>2004</i>	<i>2005 Projected</i>	
Persons Killed	42,636	43,200	+1.3%
Persons Injured	2,788,000	2,675,000	-4.1%
Fatal Crashes	38,253	38,963	+1.9%
Nonfatal Crashes	6,143,000	5,897,000	-4.0%
Injury Crashes	1,862,000	1,802,000	-3.2%
Property-Damage-Only	4,281,000	4,095,000	-4.3%

Note: Totals may not add due to rounding. Percentages computed after rounding.

Sources: FARS, NASS GES

- *The fatality rate per 100 million vehicle miles traveled (VMT) is projected to **increase**.*
- *The injury rate per 100 million VMT is projected to **decline**.*

<i>Exposure Measure</i>	<i>Year</i>		<i>% Change</i>
	<i>2004</i>	<i>2005</i>	
Vehicle Miles Traveled	2,962,513 M	2,964,381 M*	+0.1%
Registered Vehicles	237,961,465	242,721,000**	+2.0%
Population***	293,656,842	296,410,404	+0.9%

*FHWA January 2006 Traffic Volume Trends.

**Based on NHTSA projections.

***July 1 Census Bureau estimates, release date December 22, 2005.

M-Millions



Motor Vehicle Crash Fatality and Injury Rates

Rate	Year		% Change
	2004	2005 Projected	
Persons Killed			
/100M VMT	1.44	1.46*	+1.4%
/100K Reg. Vehicles	17.92	17.80**	-0.7%
/100K Population***	14.52	14.57	+0.3%
Persons Injured			
/100M VMT	94	90*	-4.3%
/100K Reg. Vehicles	1,172	1,102**	-6.0%
/100K Population***	950	903	-4.9%

*Based on January 2006 FHWA Traffic Volume Trends

**Based on NHTSA's Projections

***July, 1 estimates – Dec 22, 2005 release

Sources: FARS, NASS GES, FHWA, and Census Bureau



2005 Projections

Release April 20, 2006

- *The estimate of people killed in alcohol-related crashes is projected to **increase***
- *This **increase** follows a decline seen for the previous two years*
- *The alcohol-related fatality percentage is projected to remain the same (39 percent)*



Persons Killed, by Highest BAC in Crash

<i>Highest BAC in Crash</i>	<i>Year</i>		<i>% Change</i>
	<i>2004</i>	<i>2005 Projected</i>	
Alcohol-Related Fatalities	16,694	16,972	+1.7%
Fatality Rate / 100 M VMT	0.56	0.57	
% All Fatalities	39%	39%	
BAC = .01-.07	2,285	2,418	+5.8%
BAC = .08 or higher	14,409	14,553	+1.0%

Source: FARS, FHWA

Persons Killed in Motor Vehicle Crashes, by Role

- **Increase** in occupant fatalities by 0.6 percent
 - **Increase** in driver fatalities
 - **Decline** in passenger fatalities
- **Motorcyclist fatalities are projected to increase** for the eighth year in a row
 - More than **100 percent** increase since 1997
- **Increase** in nonoccupant fatalities by 1.1 percent
 - **Increase** will come from pedestrians
 - Slight **decline** for pedalcyclists



Persons Killed in Motor Vehicle Crashes, by Role

Role	Year		Change	% Change
	2004	2005 Projected		
Occupants	33,134	33,329	+195	+0.6%
Drivers	23,063	23,611	+548	+2.4%
Passengers	9,991	9,648	-343	-3.4%
Unknown Occupant	80	70	-10	-13%
Motorcyclists	4,008	4,315	+307	+7.7%
Nonoccupants	5,494	5,556	+62	+1.1%
Pedestrians	4,641	4,674	+33	+0.7%
Pedalcyclists	725	720	-5	-0.7%
Other*	128	162	+34	+27%
TOTAL	42,636	43,200	+564	+1.3%

*Includes occupants of motor vehicles not in transport and of non-motor vehicle transport devices.

Source: FARS



2005 Projections

Release April 20, 2006

Changes in Injuries by Role for 2005:

- ***Decline*** in occupant injuries by 4.4 percent
- ***Increase*** in motorcyclist injuries by 2.6 percent
- ***Increase*** in pedalcyclist injuries by 9.8 percent



Persons Injured in Motor Vehicle Crashes, by Role

Role	Year		% Change
	2004	2005 Projected	
Occupants	2,594,000	2,480,000	-4.4%
Drivers	1,782,000	1,734,000	-2.7%
Passengers	811,000	745,000	-8.1%
Motorcyclists	76,000	78,000	+2.6%
Nonoccupants	118,000	117,000	-0.8%
Pedestrians	68,000	65,000	-4.4%
Pedalcyclists	41,000	45,000	+9.8%
Other/Unknown Occupants	9,000	8,000	-11%
TOTAL*	2,788,000	2,675,000	-4.1%

*Totals may not add due to rounding. Percentages computed after rounding.

Source: NASS GES



2005 Projections

Release April 20, 2006

- **Passenger vehicle occupant fatalities are projected to *increase***
 - **Decline** for passenger cars
 - **Increase** in light trucks

- **Restraint use by fatally injured passenger vehicle occupants is expected to remain the same**



Occupants Killed in Motor Vehicle Crashes, by Vehicle Type

Vehicle Type	Year		Change	% Change
	2004	2005 Projected		
Total Passenger Vehicles	31,693	31,884	+191	+0.6%
Passenger Cars	19,091	18,746	-345	-1.8%
Light Trucks	12,602	13,138	+536	+4.3%
Large Trucks	761	794	+33	+4.3%
Other Vehicles*	556	527	-29	-5.2%
Unknown**	124	125	+1	--
TOTAL	33,134	33,329	+195	+0.6%

*Includes vehicle occupants killed in buses and other vehicle types.

**Unknowns in 2005 have been distributed to reflect the proportion of unknowns reported in 2004. Many of the unknown vehicle types in the 2005 Early Projection file will be resolved in the 2005 Annual Report file.

Source: FARS



2005 Projections

Release April 20, 2006



Occupants Injured in Motor Vehicle Crashes, by Vehicle Type

Vehicle Type	Year		% Change
	2004	2005 Projected	
Total Passenger Vehicles	2,543,000	2,432,000	-4.4%
Passenger Cars	1,643,000	1,558,000	-5.2%
Light Trucks	900,000	874,000	-2.9%
Large Trucks	27,000	26,000	-3.7%
Other Vehicles*	24,000	21,000	-13%
TOTAL**	2,594,000	2,480,000	-4.4%

*Includes vehicle occupants injured in buses and other vehicle types.

**Totals may not add due to rounding. Percentages computed after rounding.

Source: NASS GES



2005 Projections

Release April 20, 2006



Passenger Vehicle Occupant Fatalities (All Ages), by Restraint Use

Restraint Use	Year	
	2004	2005 Projected
Restraint Used*	45%	45%
Restraint Not Used	55%	55%

*Restraint Used = Use of any type of restraint, e.g., lap belt, lap/shoulder belt, child safety seat, etc.

Source: FARS

Persons Killed in Large-Truck Crashes

- **Persons killed in large-truck crashes are projected to *increase slightly*.**
- **Persons injured in large-truck crashes are projected to *decline*.**



Persons Killed in Large-Truck Crashes, by Type

<i>Type</i>	<i>Year</i>		<i>% Change</i>
	<i>2004</i>	<i>2005 Projected</i>	
Truck Occupants	761	794	+4.3%
Single Vehicle	466	487	+4.5%
Multiple Vehicle	295	307	+4.1%
Other Vehicle Occupants	4,006	3,984	-0.5%
Nonoccupants	423	449	+6.1%
Total	5,190	5,226	+0.7%

Source: FARS



Persons Injured in Large-Truck Crashes, by Type

<i>Type</i>	<i>Year</i>		<i>% Change</i>
	<i>2004</i>	<i>2005 Projected</i>	
Truck Occupants	27,000	26,000	-3.7%
Single Vehicle	13,000	11,000	-15%
Multiple Vehicle	14,000	15,000	+7.1%
Other Vehicle Occupants	85,000	78,000	-8.2%
Nonoccupants	4,000	3,000	-25%
Total*	116,000	107,000	-7.8%

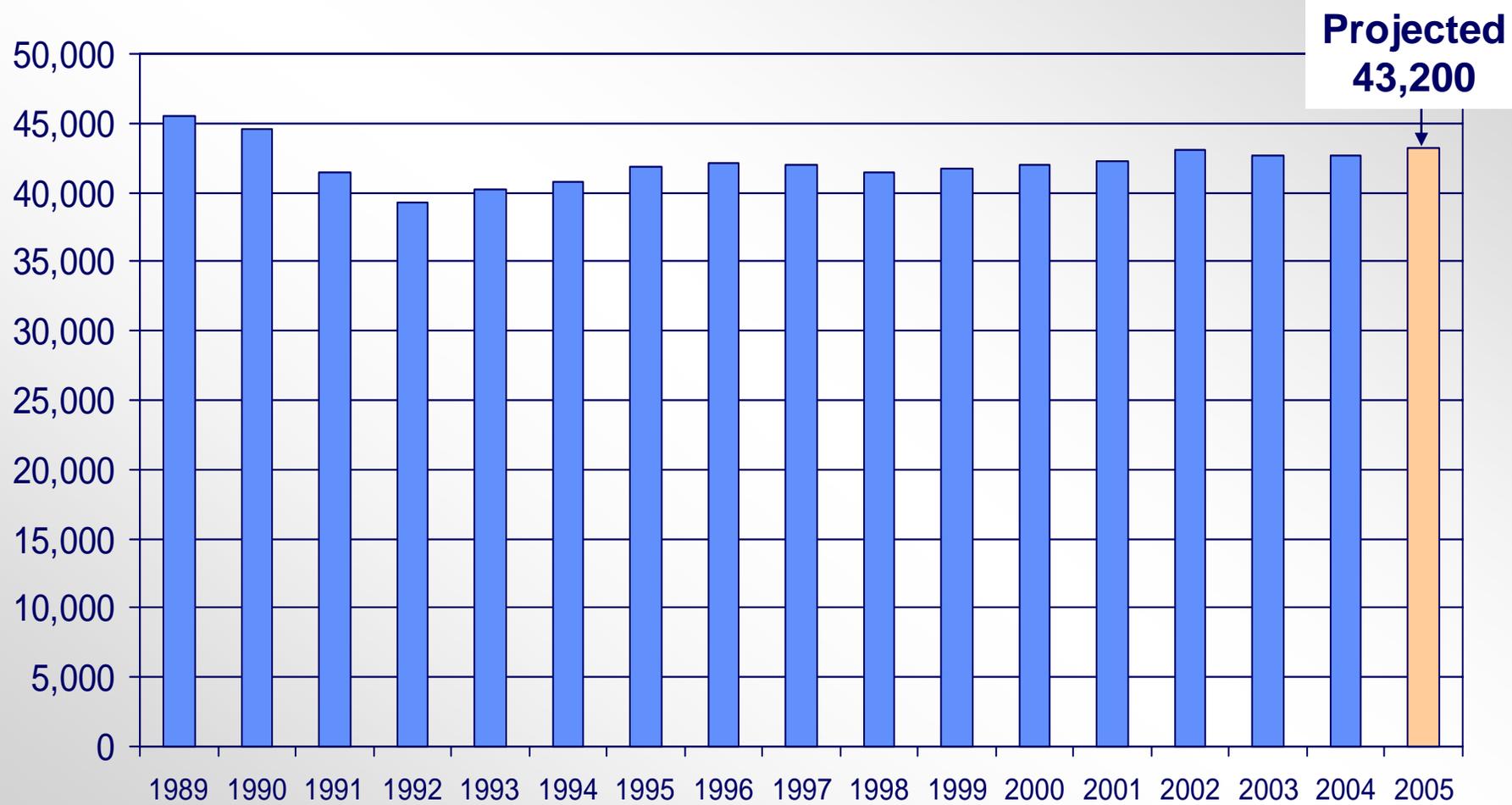
*Totals may not add due to rounding. Percentages computed after rounding.

Source: NASS GES

- 1. Persons Killed by Year***
- 2. Fatality and Injury Rates by Year***
- 3. Alcohol-Related Fatalities and Fatality Rate by Year***
- 4. Nonfatal Crashes and Persons Injured by Year***



Number of Persons Killed in Motor Vehicle Crashes, by Year



Source: FARS

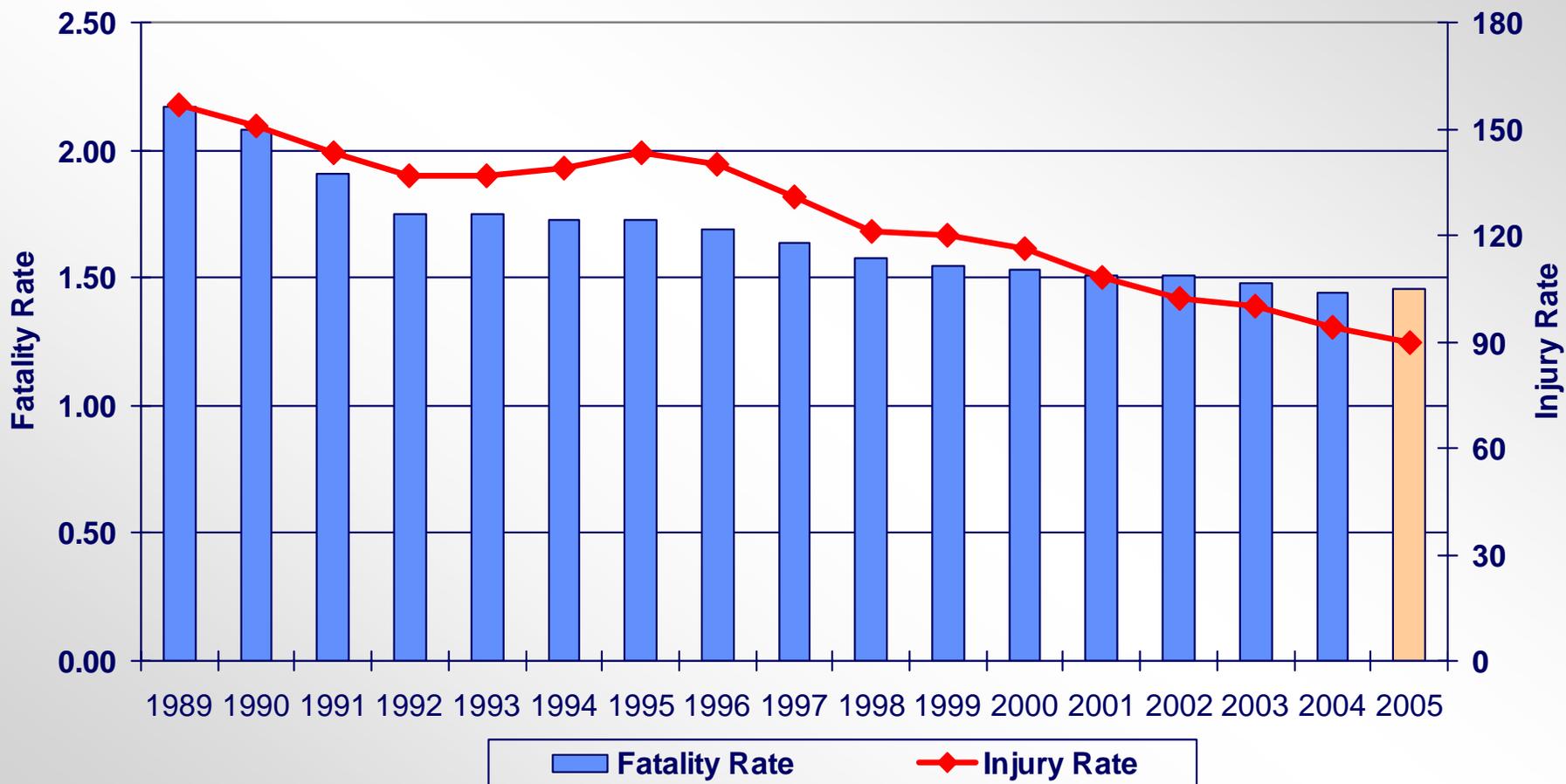


2005 Projections

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Fatality and Injury Rates per 100 Million VMT, by Year



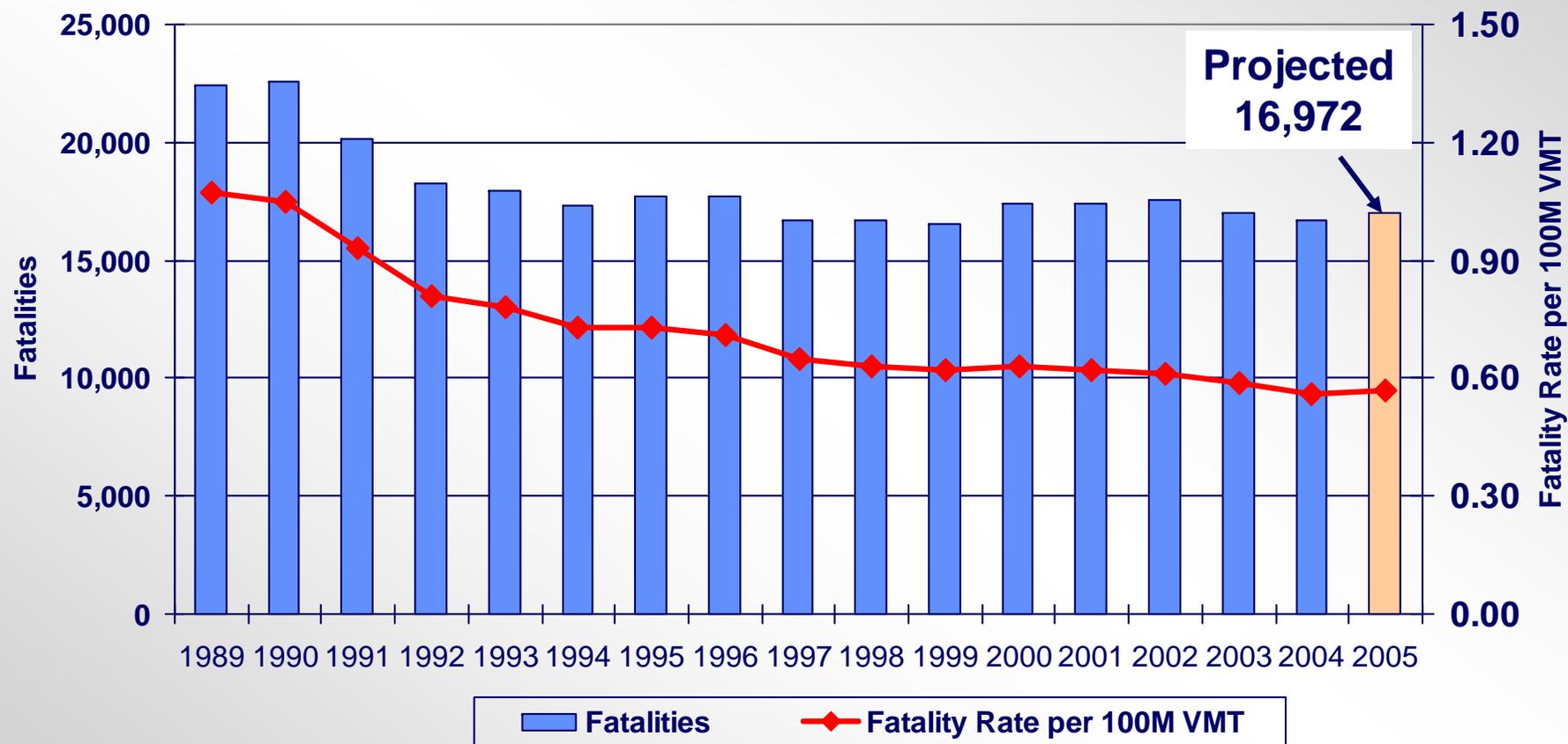
Source: FARS, NASS GES / FHWA



2005 Projections

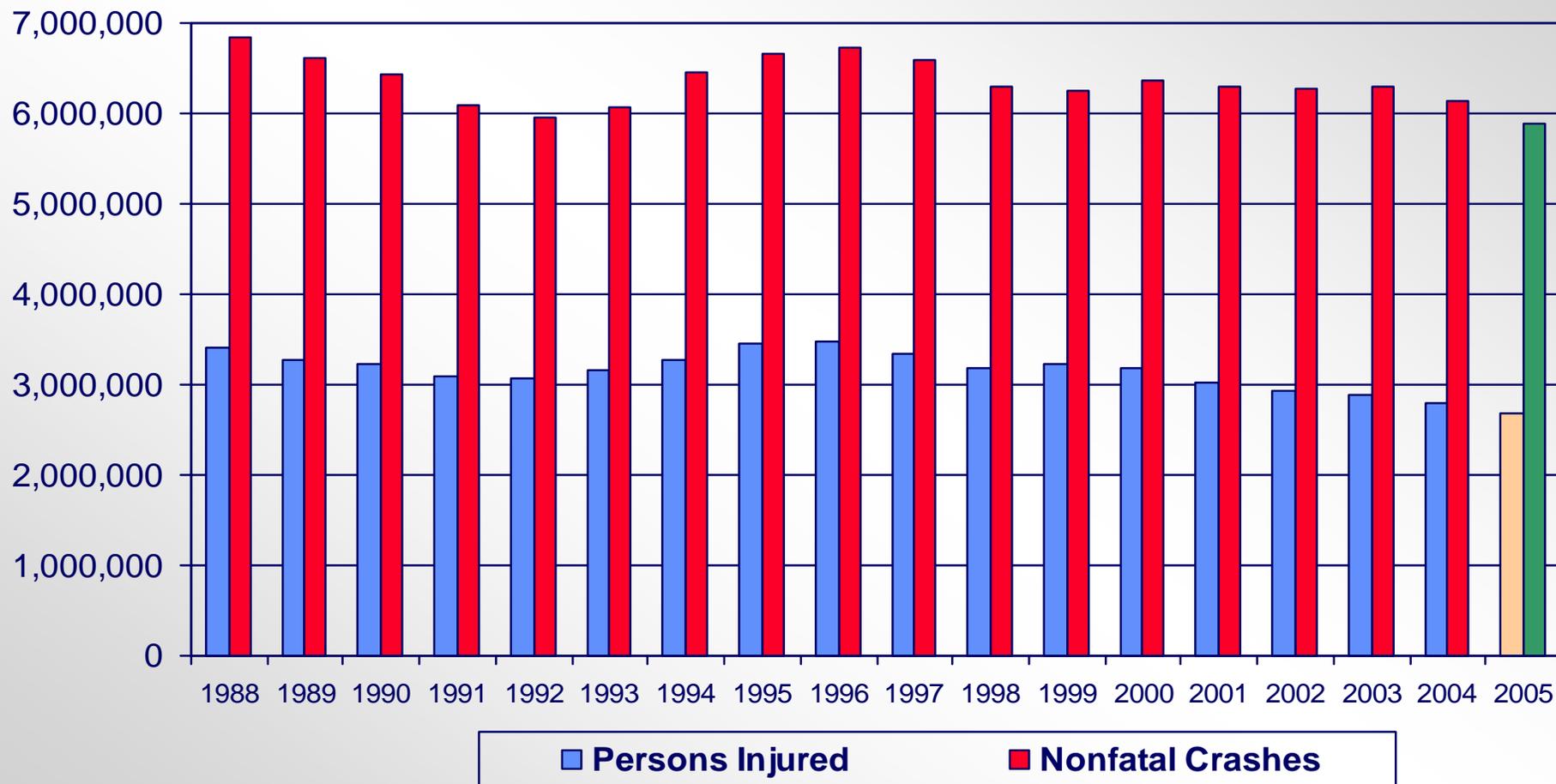
Release April 20, 2006

Alcohol-Related Fatalities and Fatality Rate, by Year



Source: FARS, FHWA

Nonfatal Crashes and Persons Injured, by Year



Sources: NASS GES

- **Crash Data**
 - ◆ **Fatality Analysis Reporting System (FARS)**
 - *2004 - Annual Report File*
 - *2005 - Early Projection File*
 - ◆ **NASS General Estimates System (GES)**
 - *2004 - Annual File*
 - *2005 - 7-Month File*
- **Exposure Data**
 - ◆ **Vehicle Miles of Travel (VMT) - Federal Highway Administration (FHWA)**
 - *2004 - Annual Highway Statistics*
 - *2005 - January 2006 Traffic Volume Trends Report*
 - ◆ **Population Estimates (based on 2000 Census)**
 - *Census Bureau, July 1 estimates released on Dec. 22, 2005*
 - ◆ **Registered Vehicles**
 - *R.L. Polk & Company and FHWA*
 - *NHTSA's Projection for 2005*

**Questions about the data in this
report may be sent
by e-mail to:
ncsaweb@nhtsa.dot.gov**

or

**made by phone to:
800-934-8517**